

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2003/001610

A.	CLASSIFICATION OF SUBJECT MAT	TER			
Int. Cl. 7:	B65D 83/06, B65G 65/40, G01F 11/00	1			
According to	International Patent Classification (IPC) or	to both	national classification and IPC		
В	FIELDS SEARCHED		·	•	
Minimum docu	mentation searched (classification system follow	ved by cla	assification symbols)		
Documentation	searched other than minimum documentation to	the exte	int that such documents are included in the fields search	ed	
DWPI & key	base consulted during the international search (in words: dispense, deliver, convey, suppoure, filter, recycle, reuse, return and simulations.	ly, feed	data base and, where practicable, search terms used) l, particulate, granular, hopper, reservoir, bin, ms	container,	
c.	DOCUMENTS CONSIDERED TO BE REL	EVANT			
Category*	Citation of document, with indication, wh			Relevant to claim No.	
x	AU 61378/00 (753910) B1 (T.A.C.A Page 4, line 4 to Page 7, line 19 and f		STRALIA) PTY LTD) 31 October 2002	1 to 10	
x	EP 0763316 B1 (AMAZONEN-WER 29 November 2000 Claim 1	RKE H.	DREYER GMBH & CO KG)	5,9	
A	EP 0752203 B1 (RABEWERK GME) Claims 1 to 19	8H & C	O) 13 September 2000		
X	urther documents are listed in the conti	inuation	n of Box C X See patent family anne	ex	
"A" docume which i relevan "E" earlier	is not considered to be of particular ce application or patent but published on or	a: o: "X" d:	ater document published after the international filing daind not in conflict with the application but cited to under theory underlying the invention ocument of particular relevance; the claimed invention	stand the principle	
"L" docum claim(s publica	after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) after the international filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art				
"O" docum exhibit	• •		ocument member of the same patent family	•	
date bu	t later than the priority date claimed		T	···	
12 February	ual completion of the international search 2004		Date of mailing of the international search report	2001	
	ing address of the ISA/AU		Authorized officer		
PO BOX 200,	V PATENT OFFICE WODEN ACT 2606, AUSTRALIA		COLIN FITZGIBBON	; · ;	
	: pct@ipaustralia.gov.au (02) 6285 3929		Telephone No : (02) 6283 2226		



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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages					
	Patent Abstracts of Japan JP, 10-176942 A (ASAHI GLASS CO LTD) 30 June 1998					
Α	Abstract					
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Box I	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This intereasons:	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following				
1.	Claims Nos:				
	because they relate to subject matter not required to be searched by this Authority, namely:				
2.	Claims Nos: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3.	Claims Nos:				
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)				
Вох П	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This Int	This International Searching Authority found multiple inventions in this international application, as follows:				
See	separate sheet				
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims				
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remarl	k on Protest The additional search fees were accompanied by the applicant's protest.				
<u></u>	No protest accompanied the payment of additional search fees.				



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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: II Lack of Unity

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1 to 3 are directed to an improved method for the metered dispensation of a particulate welding material which comprises a) establishing a primary flow of such material through a first hopper and a second hopper is series; b) extracting from such primary flow through the second hopper a determined secondary flow of such material; and c) recycling such secondary flow to such primary flow in such a manner that a metered dispensation of such material is obtained, wherein the improvement comprises adjusting the primary flow through the first hopper in such a manner that a desired size range of particulate material is delivered. It is considered that adjusting the primary flow through the first hopper in such a manner that a desired size range of particulate material is delivered comprises a first "special technical feature".
- 2. Claims 5 to 8 are directed to an apparatus for the metered dispensation of a particulate welding material which comprises a) a first hopper having a first inlet means and a first outlet means; b) a second hopper in flow connection with the first hopper and having a second inlet means and a second outlet means; c) a take-off means in combination with the second hopper and adapted to remove a selected amount of particulate material from a flow of such material through the first and second hoppers; and d) recycling means adapted to return a desired amount of particulate material to the first hopper, wherein a restrictor means is inserted in the first outlet means to restrict the flow of particulate material to a predetermined extent. It is considered that restrictor means inserted in the first outlet means to restrict the flow of particulate material to a predetermined extent comprises a second "special technical feature".
- 3. Claim 9 is directed to an apparatus for the metered dispensation of a particulate welding material which comprises a) a first hopper having a first inlet means and a first outlet means; b) a second hopper in flow connection with the first hopper and having a second inlet means and a second outlet means; c) a take-off means in combination with the second hopper adapted to remove a selected amount of particulate welding material from a flow of such material through the first and second hoppers; and d) a reservoir of particulate welding material from the take-off means from which such material may be recycled at selected intervals into the first hopper. It is considered that the reservoir of particulate welding material from the take-off means from which such material may be recycled at selected intervals into the first hopper comprises a third "special technical feature".

These groups are not so linked as to form a single general inventive concept, that is, they do not have any common inventive features, which define a contribution over the prior art. The common concept linking together these groups of claims is a method or apparatus for metered dispensation of welding material comprising a first hopper, a second hopper and recycling the particulate flow into the first hopper. However this concept is not novel in the light of AU 61378/00 (753910)(T.A.C.A. (AUSTRALIA) PTY LTD). Therefore these claims lack unity a posteriori.



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Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	nt Family Member		
AU	61378/00	NONE					
EP	0763316	DE	19538626	DE	19538628	EP	0763317
EP	0752203	EP	0642729				
JР	10-176942	NONE			•		•